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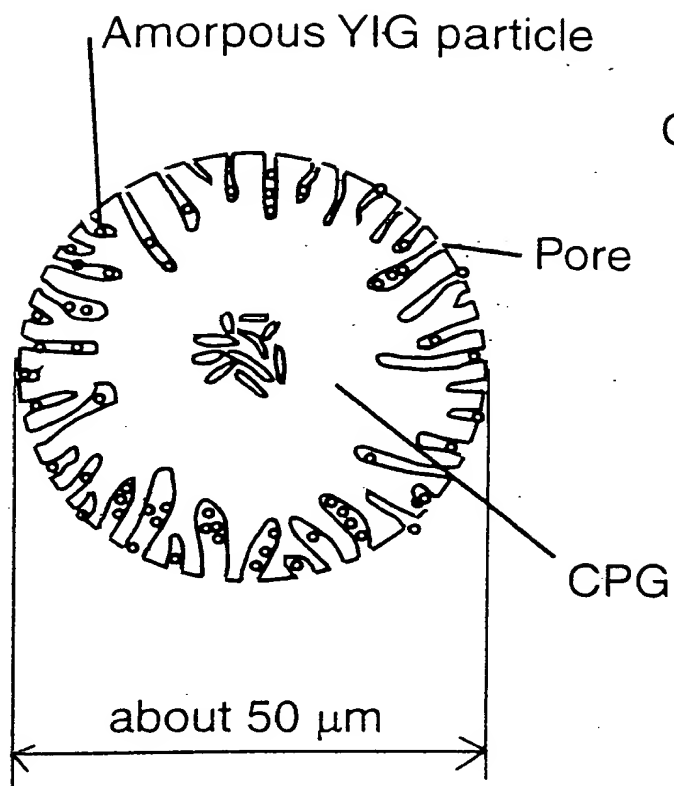
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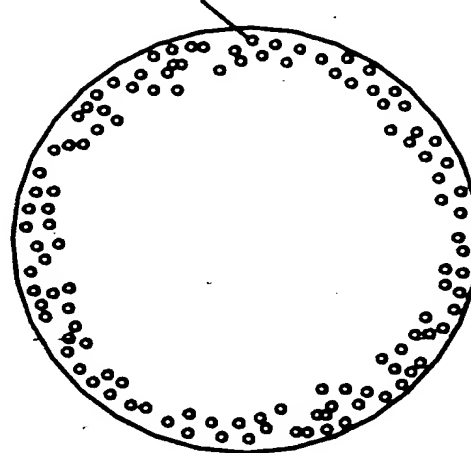
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(a) Before calcination

Crystalline YIG particle



(b) After calcination

Fig. 2

Diffraction Intensity (Arb. Unit)

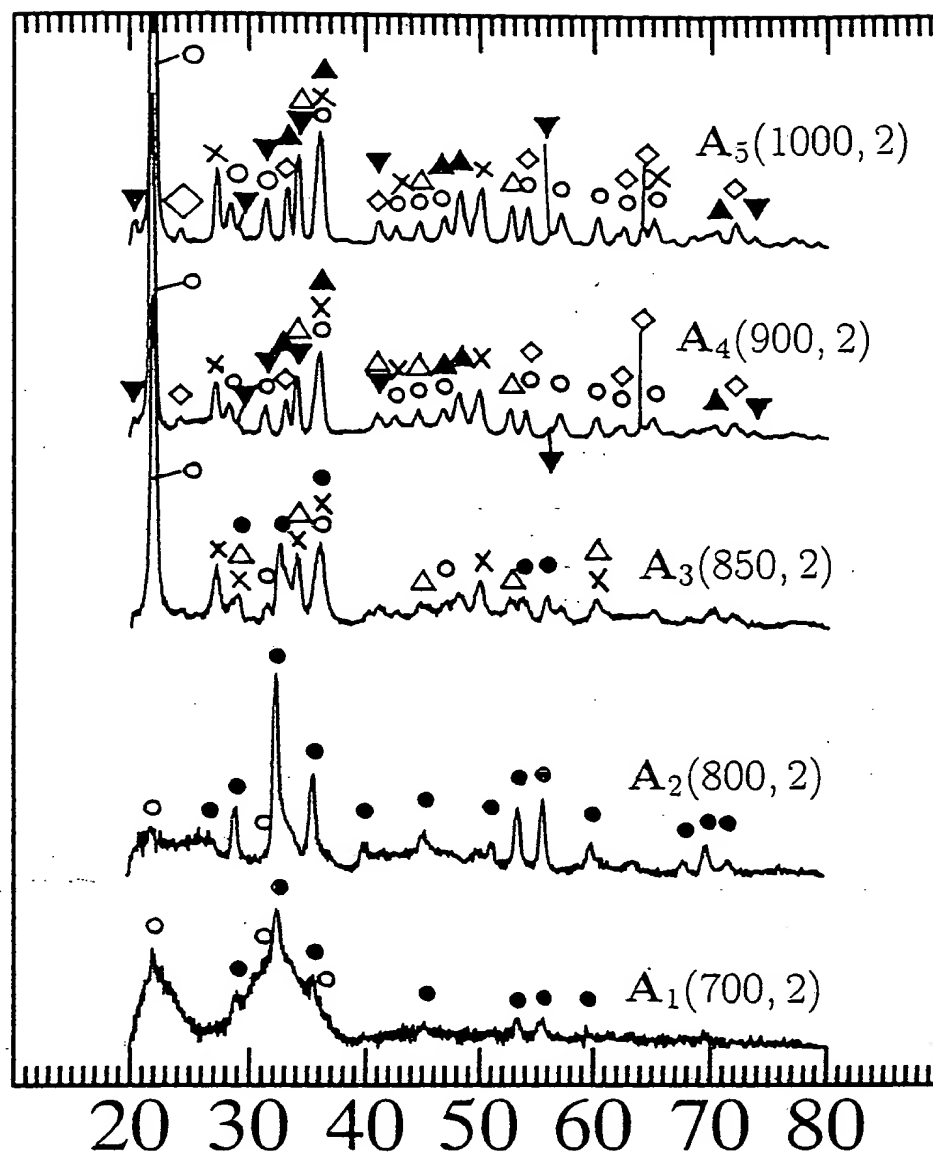
Diffraction angle  $2\theta$  (deg)

Fig. 3

Diffraction Intensity (Arb. Unit)

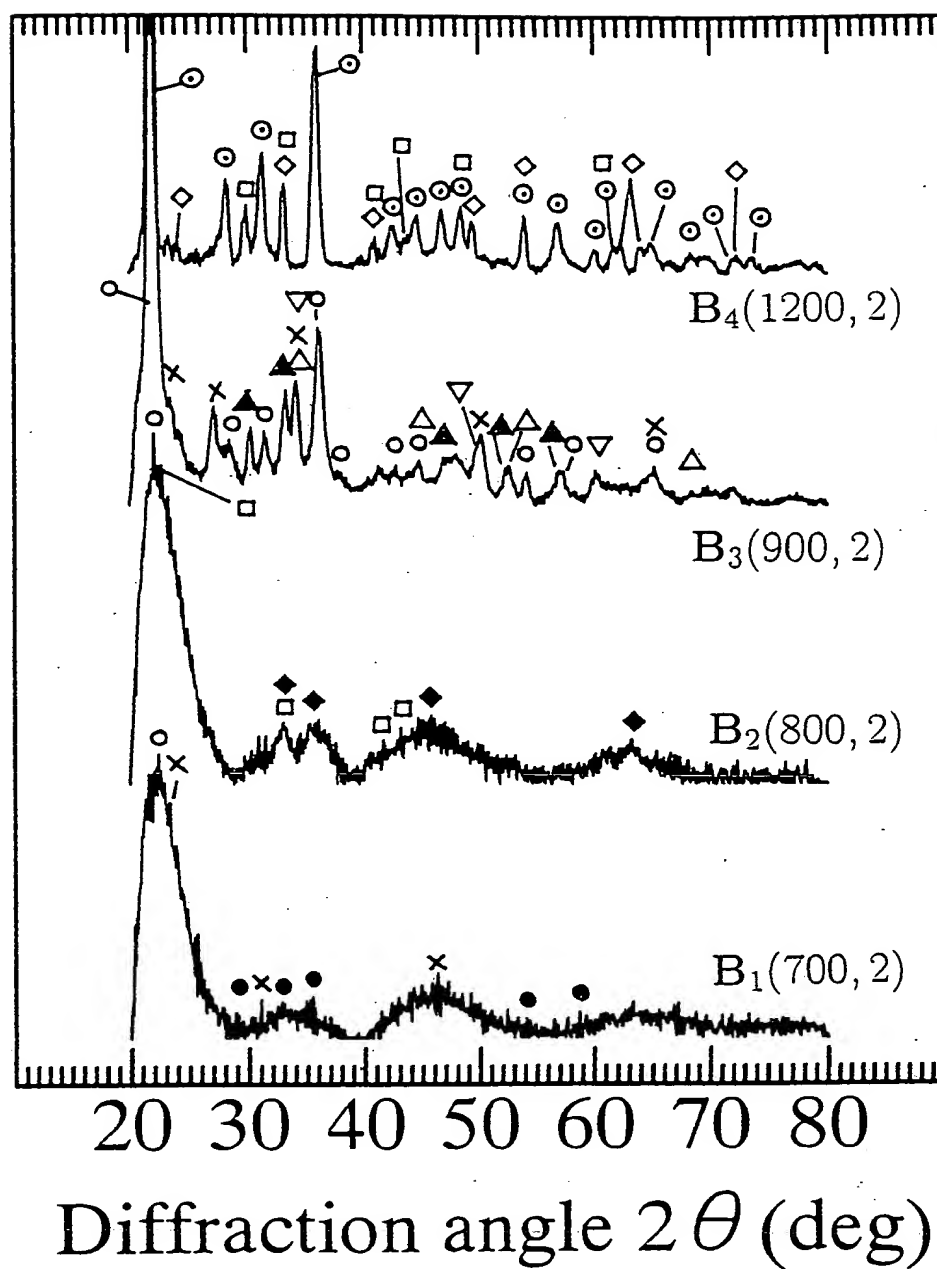
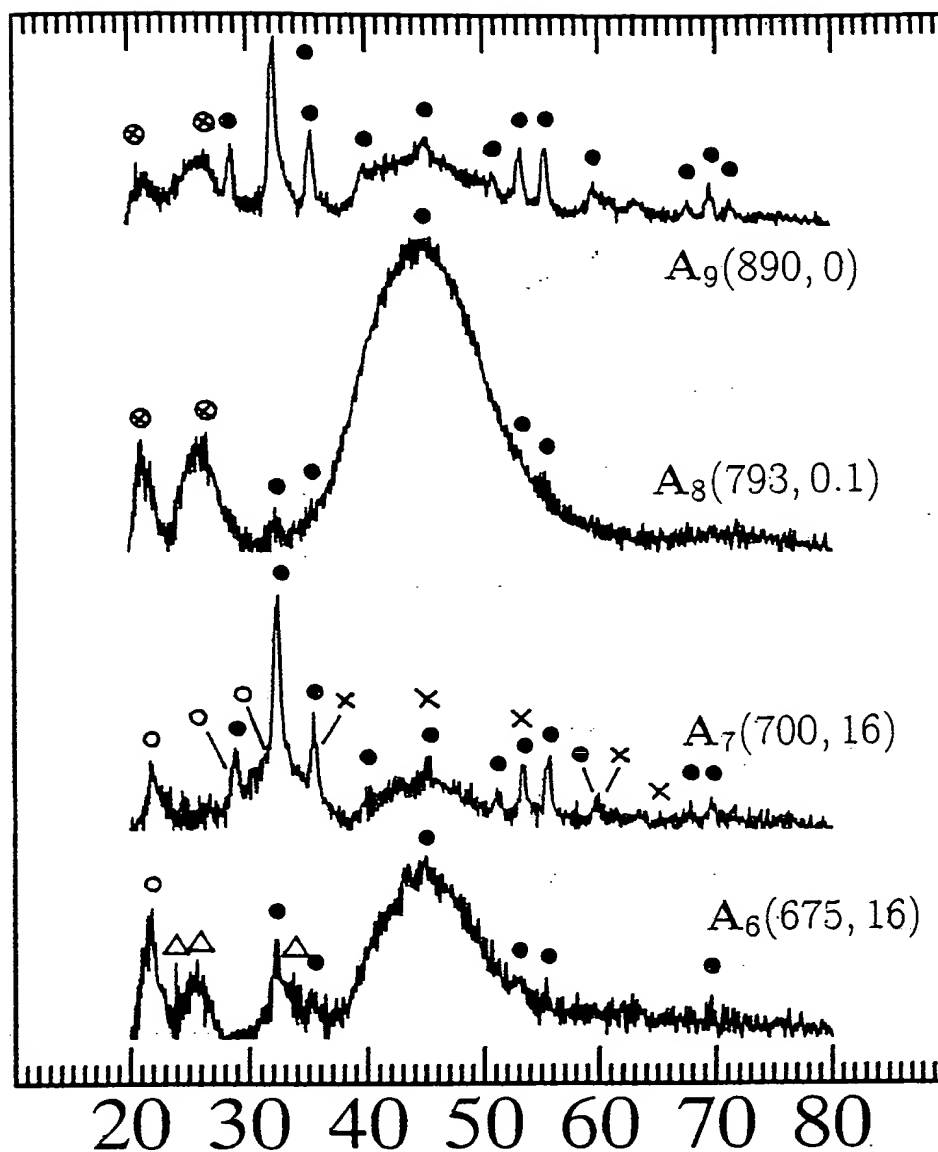


Fig. 4

Diffraction Intensity (Arb. Unit)



Diffraction angle  $2\theta$  (deg)

Fig. 5

Diffraction Intensity

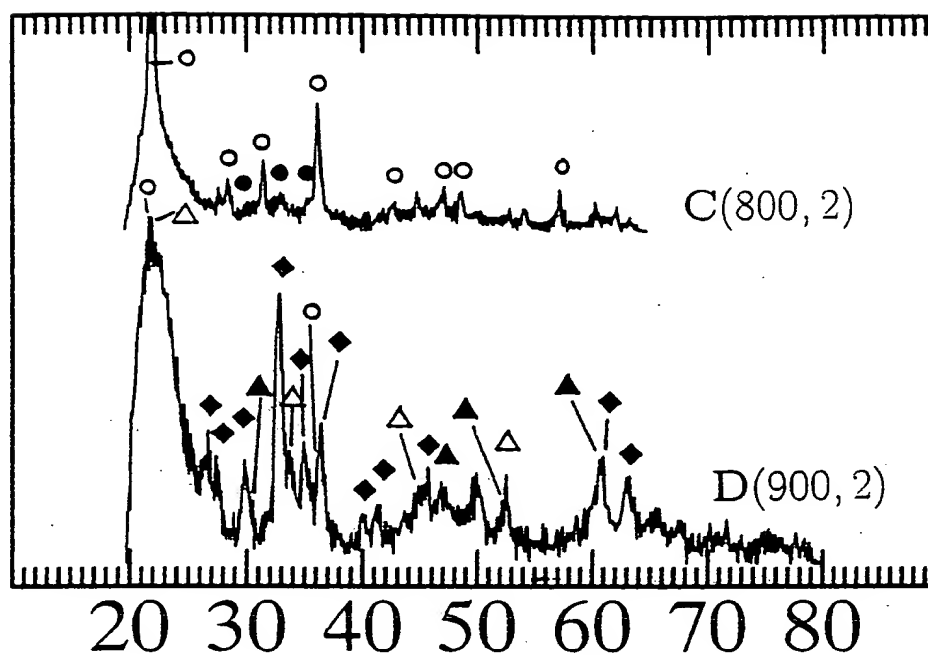
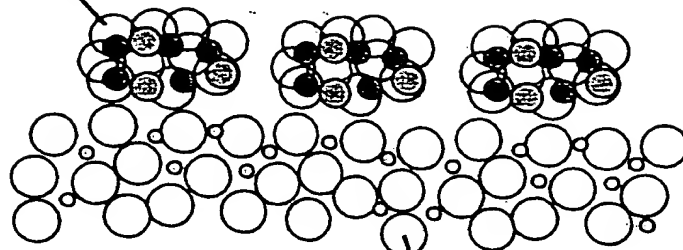
Diffraction angle  $2\theta$  (deg)

Fig. 6

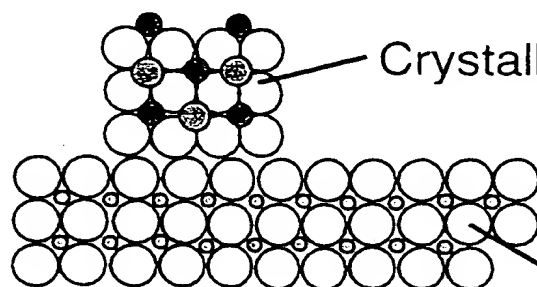
Amorphous YIG particle

(a)



Amorphous  $\text{SiO}_2$  (CPG)

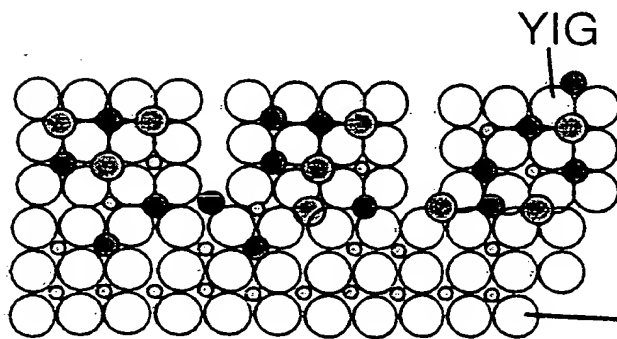
(b)



Crystalline YIG

Cristobalite

(c)



YIG

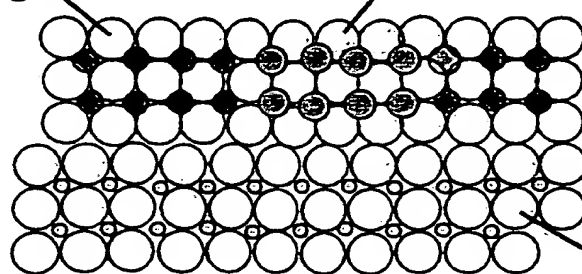
Yttrium silicate and iron silicate

Cristobalite

$\alpha\text{-Fe}_2\text{O}_3$

$\text{Y}_2\text{O}_3$

(d)



Cristobalite

$\bigcirc$  O( $1.28\text{\AA}$ )     $\bullet$  Fe( $0.69\text{\AA}$ )     $\odot$  Y( $0.75\text{\AA}$ )     $\circ$  Si( $0.38\text{\AA}$ )

Fig. 10